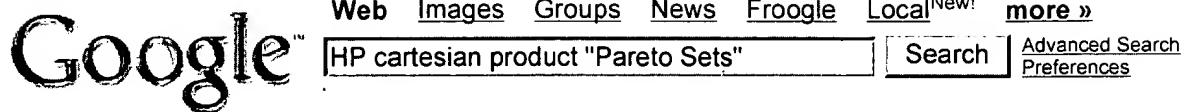


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1	IS&R	L1	0	("6853970.pn.") or ("6457173.pn.").PN.
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4	BRS	L4	1	"6853970".pn.
5	BRS	L5	1	"6457173".pn.
6	BRS	L6	1	"6385757".pn.
7	BRS	L7	1	"6507947".pn.
8	BRS	L8	0	"6374403.pn"
9	BRS	L9	1	"6374403".pn.
10	BRS	L10	1	"6460173".pn.
11	BRS	L11	1	"6853970".pn.
12	BRS	L12	0	cartesian.clm. and pareto.clm.
13	BRS	L13	0	cartesian.clm. and pareto.clm.
14	BRS	L14	0	cartesian.clm. and pareto.clm.
15	BRS	L15	2211	cartesian.clm.
16	BRS	L16	90	pareto.clm.
17	BRS	L17	5	pareto.clm. and filter.clm.

	DBs	Time Stamp	Comments
1	USPAT; USOCR	2005/05/18 14:10	
2	USPAT; USOCR	2005/05/18 14:10	
3	USPAT	2005/05/18 14:10	
4	USPAT	2005/05/18 14:11	
5	USPAT	2005/05/18 14:11	
6	USPAT	2005/05/18 14:12	
7	USPAT	2005/05/18 14:13	
8	USPAT	2005/05/18 14:13	
9	USPAT	2005/05/18 14:14	
10	USPAT	2005/05/18 14:19	
11	USPAT	2005/05/18 14:24	
12	USPAT	2005/05/18 14:25	
13	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2005/05/18 14:26	
14	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2005/05/18 14:26	
15	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2005/05/18 14:26	
16	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2005/05/18 14:26	
17	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2005/05/18 14:27	

	Type	L #	Hits	Search Text	DBs	Time Stamp
1	BRS	L1	0	(Pareto same Cartesian)	US- PGPUB; USPAT; IBM_TDB	2005/04/18 10:55
2	BRS	L2	5	(partial same Pareto)	US- PGPUB; USPAT; IBM_TDB	2005/04/18 11:08
3	BRS	L3	522	forming SAME cartesian	US- PGPUB; USPAT; IBM_TDB	2005/04/18 11:08
4	BRS	L4	0	(forming SAME cartesian) and Pareto	US- PGPUB; USPAT; IBM_TDB	2005/04/18 11:08
5	BRS	L5	1	"6408428".pn.	US- PGPUB; USPAT; IBM_TDB	2005/04/18 11:09

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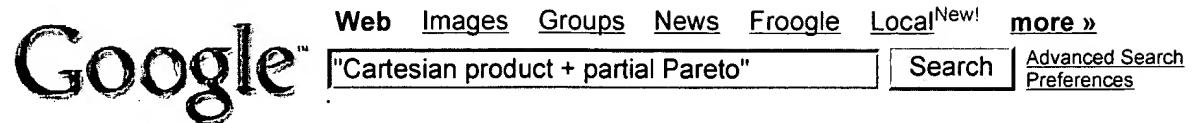
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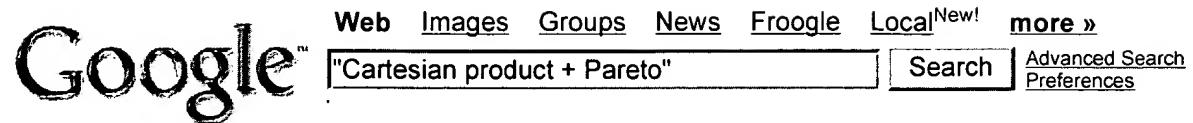
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Title

Multiobjective optimization of large-scale structures.

Author(s)

Grandhi-R-V; Bharatram-G; Venkayya-V-B.

Author affiliation

Wright State Univ, Dayton, OH, USA.

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1993.

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EN.

Publication type

J Journal Paper.

Treatment codes

T Theoretical or Mathematical.

Abstract

Presents a multiobjective optimization algorithm based on generalized compound scaling techniques. The algorithm handles any number of objective functions, similar to handling behavior constraints. The technique generates a **partial Pareto** set while solving the optimization problem. A reliability-based decision criterion is used for selecting the best compromise design. The example cases considered in this work include various disciplines in airframe structures, such as stress, displacement, and frequency with hundreds of design variables and constraints. The paper also discusses the concept of **Pareto-optimal** solutions in the context of a multiobjective structural optimization problem and the commonly used methods of generating **Pareto-optimal** solutions. (20 refs).

Descriptors[decision-theory](#); [large-scale-systems](#); [optimisation](#); [reliability-theory](#).**Keywords**

large scale structures; multiobjective optimization algorithm; generalized compound scaling techniques; **partial Pareto** set; reliability based decision criterion; airframe structures; **Pareto** optimal solutions.

Classification codes

C1210B (Reliability theory).
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